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East 7/7/04

L Number	Hits	Search Text	DB	Time stamp
-	3	"10145145"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/06 08:17
-	0	2003023251.URPN.	USPAT	2004/07/06 07:48
-	1	2003-268585.NRAN.	DERWENT	2004/07/06 07:48
-	1	"19859897"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/06 08:18
-	0	200038967.URPN.	USPAT	2004/07/06 08:17
-	1	2000-490807.NRAN.	DERWENT	2004/07/06 08:20
-	1	6585241.pn.	USPAT; US-PGPUB	2004/07/06 08:18
-	0	6585241.URPN.	USPAT	2004/07/06 08:18
-	15	("2322879"   "2356962"   "2482488"   "2906523"   "3204911"   "3270998"   "3883101"   "4190227"   "4586689"   "4696626"   "4784585"   "5132584"   "5219037"   "5342179"   "6079698").PN.	USPAT	2004/07/06 08:18
-	16	(US-6585241-\$ or US-6079698-\$ or US-5342179-\$ or US-5219037-\$ or US-5132584-\$ or US-4784585-\$ or US-4696626-\$ or US-4586689-\$ or US-4190227-\$ or US-3883101-\$ or US-3270998-\$ or US-3204911-\$ or US-2906523-\$ or US-2482488-\$ or US-2356962-\$ or US-2322879-\$).did.	USPAT	2004/07/06 08:19
-	1	2003-268585.NRAN.	DERWENT	2004/07/06 08:44
-	7	vibration near4 (generator or generating) same compressor same refrigerator	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/06 08:53

	148	("4884464" "4993772" "5785298" "4294409" "4470811" "4533897" "4541259" "4934972" "4940120" "4944692" "4986251" "5349984" "5388615" "5389885" "5433456" "5534674" "5626500" "5791580" "5836803" "5860516" "5980335" "5980337" "6117312" "6151780" "6219920" "6219920" "4247289" "4283928" "4319651" "4335287" "4370528" "4382242" "4384405" "4407538" "4410228" "4423841" "4447232" "4447077" "4449455" "4454398" "4478313" "4478137" "4492413" "4516303" "4557728" "4611844" "4616296" "4756297" "4763430" "4763637").pn. ("4765557" "4768965" "4803316" "4814563" "4814739" "4822102" "4828329" "4837975" "4850328" "4854479" "4872734" "4901475" "4918582" "4937548" "4947822" "4950136" "4955761" "4974987" "4988707" "5180972" "5180976" "5192904"	USPAT; US-PGPUB	2004/07/07 07:43
Search History 7/7/04 10:40:18 AM Page 2 C:\APPS\least\workspaces\10801959.wsp				

-	11	("4884464" "4993772" "5785298" "4294409" "4470811" "4533897" "4541259" "4934972" "4940120" "4944692" "4986251" "5349984" "5388615" "5389885" "5433456" "5534674" "5626500" "5791580" "5836803" "5860516" "5980335" "5980337" "6117312" "6151780" "6219920" "6219920" "4247289" "4283928" "4319651" "4335287" "4370528" "4382242" "4384405" "4407538" "4410228" "4423841" "4447232" "4447077" "4449455" "4454398" "4478313" "4478137" "4492413" "4516303" "4557728" "4611844" "4616296" "4756297" "4763430" "4763637").pn. ("4765557" "4768965" "4803316" "4814563" "4814739" "4822102" "4828329" "4837975" "4850328" "4854479" "4872734" "4901475" "4918582" "4937548" "4947822" "4950136" "4955761" "4974987" "4998007" "5180972" "5180976" "5192904"	USPAT; US-PGPUB	2004/07/06 08:49
Search History 7/7/04 10:49:07 AM Page 3 C:\APPS\east\workspaces\5180976.wsp				

-	25	("4884464" "4993772" "5785298" "4294409" "4470811" "4533897" "4541259" "4934972" "4940120" "4944692" "4986251" "5349984" "5388615" "5389885" "5433456" "5534674" "5626500" "5791580" "5836803" "5860516" "5980335" "5980337" "6117312" "6151780" "6219920" "6219920" "4247289" "4283928" "4319651" "4335287" "4370528" "4382242" "4384405" "4407538" "4410228" "4423841" "4447232" "4447077" "4449455" "4454398" "4478313" "4478137" "4492413" "4516303" "4557728" "4611844" "4616296" "4756297" "4763430" "4763637").pn. ("4765557" "4768965" "4803316" "4814563" "4814739" "4822102" "4828329" "4837975" "4850328" "4854479" "4872734" "4901475" "4918582" "4937548" "4947822" "4950136" "4955761" "4974987" "4988707" "5180972" "5180978" "5192904"	USPAT; US-PGPUB	2004/07/06 08:50
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-	531	Athanasios or Athanasiou	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/06 08:53
-	320	Athanasios.in. or Athanasiou.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/06 08:53
-	1	(Athanasios.in. or Athanasiou.in.) and (vibration or vibrator) same vibration same spring	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/06 08:54
-	6	(Athanasios.in. or Athanasiou.in.) and (vibration or vibrator) same vibration	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/06 10:43
-	2699	vibration with different near3 frequency	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/07 08:12
-	415	vibration with different near3 frequency with damp\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/07 08:12
-	62	vibration with different near3 frequency with damp\$6 with (rubber or elastom\$5 or spring)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/07 08:13
-	0	vibration adj2 generator with different near3 frequency with damp\$6 with (rubber or elastom\$5 or spring)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/07 08:13
-	0	vibration adj2 generat\$5 with different near3 frequency with damp\$6 with (rubber or elastom\$5 or spring)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/07 08:14
-	1	vibration near4 generat\$5 with different near3 frequency with damp\$6 with (rubber or elastom\$5 or spring)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/07 08:14
-	21	vibration near4 generat\$5 with different near3 frequency with damp\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/07 08:14
-	14	5431261.URPN.	USPAT	2004/07/07 08:25
-	7	("3566993"   "3701499"   "4483425"   "4546960"   "4869474"   "5174552"   "5219143").PN.	USPAT	2004/07/07 08:25

Butler, Douglas

PLUS

7/7/04

**From:** PLUS  
**Sent:** Monday, June 21, 2004 2:09 PM  
**To:** Butler, Douglas  
**Subject:** PLUS Results for 10801959

Here are the PLUS search results for 10801959.

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10801959\_QUAL.txt



10801959\_LIST.txt



10801959\_WEST.txt



10801959\_EAST.txt



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10801959\_CLS.txt



10801959\_CLSTITLES.txt



10801959\_WDS.txt

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PLUS Search Results for S/N 10801959, Searched June 21, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10801959\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10801959 on June 21, 2004

Original Classifications

3	30/43.92
3	124/67
3	324/761
2	49/175
2	92/63
2	200/302.3
2	320/112
2	324/754
2	385/78
2	474/110
2	604/134
2	606/185

Cross-Reference Classifications

4	30/346.51
2	33/755
2	49/449
2	70/432
2	92/130A
2	123/198DB
2	124/52
2	200/437
2	200/557
2	222/95
2	251/337
2	324/755
2	337/66
2	385/55
2	385/60
2	385/77
2	385/84
2	439/74
2	474/138
2	600/583
2	604/214

Combined Classifications

4	30/346.51
3	30/43.92
3	124/67
3	200/302.3
3	324/754
3	324/761
2	33/755
2	49/175
2	49/449
2	70/432
2	92/130A
2	92/63
2	123/198DB
2	124/41.1
2	124/52
2	137/625.43
2	177/229

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2 200/437  
2 200/557  
2 222/95  
2 251/129.15  
2 251/337  
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2 324/755  
2 337/66  
2 385/55  
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2 385/84  
2 439/74  
2 474/110  
2 474/138  
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2 604/134  
2 604/214  
2 606/185

## 10801959 CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10801959 on June 21, 2004

- 4 30/346.51 (0 OR, 4 XR)  
Class 030 : CUTLERY  
30/346 BLADES  
30/346.5 .Razor blade  
30/346.51 ..Cutting couple element
- 3 30/43.92 (3 OR, 0 XR)  
Class 030 : CUTLERY  
30/32 RAZORS  
30/43 .With cooperating shearing blades  
30/43.91 ..Reciprocating inner blade  
30/43.92 ...And stationary outer blade
- 3 124/67 (3 OR, 0 XR)  
Class 124 : MECHANICAL GUNS AND PROJECTORS  
124/56 FLUID PRESSURE  
124/63 .Provided by movement of user-actuated,  
projector-mounted pressure member  
124/64 ..To create surge of pressure  
124/65 ...By plunger moving within cylinder  
124/66 ....By spring-driven plunger  
124/67 .....Within cylinder having diameter larger  
than projector barrel
- 3 200/302.3 (2 OR, 1 XR)  
Class 200 : ELECTRICITY: CIRCUIT MAKERS AND BREAKERS  
200/237 ELECTRIC SWITCH DETAILS  
200/293 .Cases and bases  
200/302.1 ..Dust, dirt, or moisture excluding  
200/302.3 ...Seal for rocker or lever actuator
- 3 324/754 (2 OR, 1 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/537 .Of individual circuit component or element  
324/754 ..With probe elements
- 3 324/761 (3 OR, 0 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/537 .Of individual circuit component or element  
324/754 ..With probe elements  
324/761 ...Pin
- 2 33/755 (0 OR, 2 XR)  
Class 033 : GEOMETRICAL INSTRUMENTS  
33/700 DISTANCE MEASURING  
33/755 .By flexible tape
- 2 49/175 (2 OR, 0 XR)  
Class 049 : MOVABLE OR REMOVABLE CLOSURES  
49/149 MOUNTED FOR OPTIONAL MOVEMENTS  
49/174 .Edgewise retractable bearing acting between

10801959\_CLSTITLES  
closure and portal frame

49/175           ..Towards closure

2    49/449           (0 OR, 2 XR)  
       Class    049 :   MOVABLE OR REMOVABLE CLOSURES  
       49/404           WITH MEANS MOUNTING CLOSURE FOR RECIPROCATION  
       49/449           ..With latch or lock

2    70/432           (0 OR, 2 XR)  
       Class    070 :   LOCKS  
       70/431           PARTS, ATTACHMENTS, ACCESSORIES AND ADJUNCTS  
       70/432           ..Condition indicators

2    92/130A          (0 OR, 2 XR)  
       Class    092 :   EXPANSIBLE CHAMBER DEVICES  
       92/130R           WITH SEPARATE BIASING MEANS FOR WORKING MEMBER  
       92/130A           ..Bias normally held inoperative by fluid  
                           pressure

2    92/63            (2 OR, 0 XR)  
       Class    092 :   EXPANSIBLE CHAMBER DEVICES  
       92/61            RELATIVELY MOVABLE WORKING MEMBERS  
       92/62            ..First working member moves second coaxial  
                           working member through separating abutment surfaces  
       92/63            ..With separate biasing means for a working  
                           member

2    123/198DB        (0 OR, 2 XR)  
       Class    123 :   INTERNAL-COMBUSTION ENGINES  
       123/198R           ACCESSORIES  
       123/198DB        ..Fuel cut-off

2    124/41.1         (1 OR, 1 XR)  
       Class    124 :   MECHANICAL GUNS AND PROJECTORS  
       124/80            ELEMENT  
       124/41.1         ..Projectile holder or carrier

2    124/52           (0 OR, 2 XR)  
       Class    124 :   MECHANICAL GUNS AND PROJECTORS  
       124/80            ELEMENT  
       124/45            ..Magazine  
       124/51.1         ..Mechanical projectile feed  
       124/52            ...Spring

2    137/625.43       (1 OR, 1 XR)  
       Class    137 :   FLUID HANDLING  
       137/561R           SYSTEMS  
       137/625            ..Multi-way valve unit  
       137/625.43        ..Four port reversing valves

2    177/229          (1 OR, 1 XR)  
       Class    177 :   WEIGHING SCALES  
       177/201            SELF-POSITIONING  
       177/225            ..Spring  
       177/229            ..Cantilever

2    200/437          (0 OR, 2 XR)



## 10801959\_CLSTITLES

- Class 200 : ELECTRICITY: CIRCUIT MAKERS AND BREAKERS  
 200/402 SNAP  
 200/405 .Double snap  
 200/431 ..Cam or wedge release  
 200/437 ...Spring biased element slides over pivoted element
- 2 200/557 (0 OR, 2 XR)  
 Class 200 : ELECTRICITY: CIRCUIT MAKERS AND BREAKERS  
 200/502 SOLID CONTACT  
 200/553 ..Rocking actuator (e.g., rocker, lever)  
 200/557 ..Actuator biasing mechanism
- 2 222/95 (0 OR, 2 XR)  
 Class 222 : DISPENSING  
 222/92 COLLAPSIBLE WALL-TYPE CONTAINER  
 222/95 .With wall-collapsing means
- 2 251/129.15 (1 OR, 1 XR)  
 Class 251 : VALVES AND VALVE ACTUATION  
 251/129.01 ELECTRICALLY ACTUATED VALVE  
 251/129.15 .Including solenoid
- 2 251/337 (0 OR, 2 XR)  
 Class 251 : VALVES AND VALVE ACTUATION  
 251/336 BIASED VALVE  
 251/337 .Springs and spring retainers
- 2 320/112 (2 OR, 0 XR)  
 Class 320 : ELECTRICITY: BATTERY OR CAPACITOR CHARGING OR DISCHARGING  
 320/107 CELL OR BATTERY CHARGER STRUCTURE  
 320/112 .For battery pack
- 2 324/755 (0 OR, 2 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF ELECTRIC COMPONENTS  
 324/537 .Of individual circuit component or element  
 324/754 ..With probe elements  
 324/755 ...Internal of or on support for device under test (DUT)
- 2 337/66 (0 OR, 2 XR)  
 Class 337 : ELECTRICITY: ELECTROTHERMALLY OR THERMALLY ACTUATED SWITCHES  
 337/14 ELECTROTHERMALLY ACTUATED SWITCHES  
 337/36 .With bimetallic elements (i.e., motion takes place in a plane at right angles to its major axis)  
 337/37 ..With manual or other mechanical contact controlling means  
 337/52 ...With spring or other energy storage device  
 337/62 ....Reciprocating or slidable motion device  
 337/66 .....With push-button actuating means
- 2 385/55 (0 OR, 2 XR)  
 Class 385 : OPTICAL WAVEGUIDES  
 385/53 WITH DISENGAGABLE MECHANICAL CONNECTOR

## 10801959\_CLSTITLES

- 385/55 .Structure surrounding optical fiber-to-fiber connection
- 2 385/60 (0 OR, 2 XR)  
 Class 385 : OPTICAL WAVEGUIDES  
 385/53 WITH DISENGAGABLE MECHANICAL CONNECTOR  
 385/55 .Structure surrounding optical fiber-to-fiber connection  
 385/56 ..Multi-part (e.g., two pieces screwed together or bayonet latched)  
 385/58 ...With additional structure at or immediately surrounding each optical fiber end face  
 385/60 ....Fiber end held in ferrule
- 2 385/77 (0 OR, 2 XR)  
 Class 385 : OPTICAL WAVEGUIDES  
 385/53 WITH DISENGAGABLE MECHANICAL CONNECTOR  
 385/76 .Optical fiber/optical fiber cable termination structure  
 385/77 ..At or immediately surrounding an optical fiber end face
- 2 385/78 (2 OR, 0 XR)  
 Class 385 : OPTICAL WAVEGUIDES  
 385/53 WITH DISENGAGABLE MECHANICAL CONNECTOR  
 385/76 .Optical fiber/optical fiber cable termination structure  
 385/77 ..At or immediately surrounding an optical fiber end face  
 385/78 ...Fiber end held in ferrule
- 2 385/84 (0 OR, 2 XR)  
 Class 385 : OPTICAL WAVEGUIDES  
 385/53 WITH DISENGAGABLE MECHANICAL CONNECTOR  
 385/76 .Optical fiber/optical fiber cable termination structure  
 385/77 ..At or immediately surrounding an optical fiber end face  
 385/78 ...Fiber end held in ferrule  
 385/84 ....Tube-type holding structure
- 2 439/74 (0 OR, 2 XR)  
 Class 439 : ELECTRICAL CONNECTORS  
 439/55 PREFORMED PANEL CIRCUIT ARRANGEMENT, E.G., PCB, ICM, DIP, CHIP, WAFER, ETC.  
 439/65 .With provision to conduct electricity from panel circuit to another panel circuit  
 439/74 ..Overlying second preformed panel circuit, both adapted to be electrically connected
- 2 474/110 (2 OR, 0 XR)  
 Class 474 : ENDLESS BELT POWER TRANSMISSION SYSTEMS OR COMPONENTS  
 474/101 MEANS FOR ADJUSTING BELT TENSION OR FOR SHIFTING BELT, PULLEY OR GUIDE ROLL  
 474/110 .Tension adjuster or shifter driven by electrical or fluid motor
- 2 474/138 (0 OR, 2 XR)

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Class 474 : ENDLESS BELT POWER TRANSMISSION SYSTEMS OR COMPONENTS  
 474/101 MEANS FOR ADJUSTING BELT TENSION OR FOR SHIFTING BELT, PULLEY OR GUIDE ROLL  
 474/136 .Guide roll mounted for movement of its axis along rectilinear path to tension belt  
 474/138 ..Guide roll spring biased in belt-tensioning direction

2 600/583 (0 OR, 2 XR)  
 Class 600 : SURGERY  
 600/300 DIAGNOSTIC TESTING  
 600/573 .Liquid collection  
 600/583 ..Collector combined with lancet

2 604/134 (2 OR, 0 XR)  
 Class 604 : SURGERY  
 604/19 MEANS FOR INTRODUCING OR REMOVING MATERIAL FROM BODY FOR THERAPEUTIC PURPOSES (E.G., MEDICATING, IRRIGATING, ASPIRATING, ETC.)  
 604/48 .Treating material introduced into or removed from body orifice, or inserted or removed subcutaneous other than by diffusing through skin  
 604/93.01 ..Material introduced or removed through conduit, holder, or implantable reservoir inserted in body  
 604/131 ...Treating material forced into or out of body by self-acting fluid pressure, motor-driven, or mechanical energy storing means (e.g., pressure infusion or aspiration, etc.)  
 604/134 ....Material impelled by spring

2 604/214 (0 OR, 2 XR)  
 Class 604 : SURGERY  
 604/19 MEANS FOR INTRODUCING OR REMOVING MATERIAL FROM BODY FOR THERAPEUTIC PURPOSES (E.G., MEDICATING, IRRIGATING, ASPIRATING, ETC.)  
 604/48 .Treating material introduced into or removed from body orifice, or inserted or removed subcutaneous other than by diffusing through skin  
 604/93.01 ..Material introduced or removed through conduit, holder, or implantable reservoir inserted in body  
 604/181 ...Means moved by person to inject or remove fluent material to or from body inserted conduit, holder, or reservoir  
 604/187 ....Injector or aspirator syringe supported only by person during use (e.g., hand held hypodermic syringe, douche tube with forced injection, etc.)  
 604/212 .....Having collapsible material reservoir (e.g., squeeze bulb, etc.)  
 604/214 .....Mechanical means (e.g., piston, clamp, etc.) moved to collapse reservoir

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2 606/185 (2 OR, 0 XR)  
Class 606 : SURGERY  
606/1 INSTRUMENTS  
606/167 .Cutting, puncturing or piercing  
606/185 ..Puncturing or piercing